

Table 33. Employed doctoral scientists and engineers, by occupation and sector of employment: 1999

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Occupation	Total	Universities and 4-year colleges	Other edu- cational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Govern- ment	State and local govern- ment	Other sector
[Number]									
All occupations.....	553,360	240,080	15,710	185,720	30,400	27,540	37,250	14,870	1,790
Scientists.....	342,140	176,060	9,600	86,520	19,780	15,710	24,530	8,740	1,190
Computer and information scientists.....	32,740	7,780	190	21,610	850	970	1,030	310	S
Computer/information scientists.....	26,550	1,880	S	21,500	850	970	1,030	310	S
Postsecondary teachers, computer sciences.....	6,190	5,900	180	110	S	S	S	S	S
Mathematical scientists.....	19,650	13,710	790	2,740	220	660	1,370	110	60
Mathematical scientists.....	6,410	1,180	80	2,740	220	660	1,370	110	60
Postsecondary teachers, math sciences.....	13,230	12,520	710	S	S	S	S	S	S
Life and related scientists.....	104,030	64,420	2,040	20,720	1,670	4,050	9,160	1,810	150
Agricultural scientists.....	8,560	2,650	S	3,790	350	120	1,520	90	S
Biological scientists.....	58,160	27,390	S	16,720	1,210	3,740	7,340	1,650	90
Forestry and conservation scientists.....	1,190	380	S	190	70	160	300	70	S
Postsecondary teachers, life and related sciences.....	36,130	34,000	2,020	S	S	S	S	S	S
Physical and related scientists.....	75,350	33,320	2,070	27,020	1,070	2,200	8,160	1,390	120
Chemists, except biochemistry.....	24,840	2,460	S	18,820	420	650	1,950	500	S
Earth scientists.....	9,630	2,820	S	2,810	310	520	2,540	590	S
Physics and astronomers.....	13,460	3,910	S	4,800	170	970	3,280	260	80
Other physical scientists.....	1,330	200	S	560	130	S	380	S	S
Postsecondary teachers, physical and related sciences .....	26,070	23,930	2,020	S	S	S	S	S	S
Social scientists.....	45,460	34,300	1,090	3,110	1,090	1,640	2,540	870	830
Economists.....	6,970	1,170	S	2,130	400	700	1,540	260	760
Political scientists.....	1,060	330	S	150	90	200	220	S	S
Sociologists and anthropologists.....	3,560	1,480	S	500	290	400	480	380	S
S&T historians and other social scientists.....	2,200	780	S	310	290	330	290	180	S
Postsecondary teachers, social sciences .....	31,670	30,540	1,070	S	S	S	S	S	S
Psychologists.....	64,910	22,530	3,400	11,340	14,890	6,200	2,260	4,260	S
Psychologists.....	48,580	7,070	2,590	11,340	14,860	6,180	2,260	4,260	S
Postsecondary teachers, psychology.....	16,320	15,470	810	S	S	S	S	S	S
Engineers.....	74,600	22,370	210	42,070	1,670	2,000	5,110	1,000	170
Aerospace/aeronautical engineers.....	4,070	410	S	2,460	110	260	800	S	S
Chemical engineers.....	7,610	430	S	6,390	100	270	350	S	S
Civil and architectural engineers.....	4,150	500	S	2,260	370	140	370	490	S
Electrical and related engineers.....	15,350	1,020	S	12,160	490	450	1,190	S	S
Materials/metallurgical engineers.....	1,050	S	S	830	S	S	110	S	S
Mechanical engineers.....	8,610	820	S	6,710	130	350	530	S	S
Other engineers.....	16,690	2,240	S	11,270	420	520	1,750	410	60
Postsecondary teachers, engineering.....	17,080	16,900	190	S	S	S	S	S	S
Non-S&E occupations.....	136,630	41,650	5,900	57,130	8,950	9,830	7,620	5,140	420
Top/mid-level managers, administrators, etc.....	66,070	14,400	1,510	34,800	1,760	5,240	4,850	3,190	310
Health and related occupations.....	17,270	5,710	90	5,720	1,690	2,250	1,100	720	S
Teachers, except S&E postsecondary teachers.....	23,700	19,310	3,720	160	250	120	S	70	S
Social services and related occupations.....	2,350	360	330	210	150	940	S	320	S
Technicians/technologists.....	7,530	530	S	5,530	330	290	540	270	S
Sales and marketing occupations.....	6,190	100	S	4,680	1,340	S	S	S	S
Other non-S&E occupations.....	13,520	1,240	230	6,040	3,430	960	1,040	520	60

See explanatory information and SOURCE at end of table.

Table 33. Employed doctoral scientists and engineers, by occupation and sector of employment: 1999

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Occupation	Total	Universities and 4-year colleges	Other edu- cational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Govern- ment	State and local govern- ment	Other sector
[Percent]									
All occupations.....	100.0	43.4	2.8	33.6	5.5	5.0	6.7	2.7	0.3
Scientists.....	100.0	51.5	2.8	25.3	5.8	4.6	7.2	2.6	0.3
Computer and information scientists.....	100.0	23.8	0.6	66.0	2.6	3.0	3.2	0.9	S
Computer/information scientists.....	100.0	7.1	S	81.0	3.2	3.6	3.9	1.2	S
Postsecondary teachers, computer sciences.....	100.0	95.4	2.9	1.8	S	S	S	S	S
Mathematical scientists.....	100.0	69.8	4.0	13.9	1.1	3.3	7.0	0.5	0.3
Mathematical scientists.....	100.0	18.5	1.3	42.7	3.4	10.3	21.4	1.7	0.9
Postsecondary teachers, math sciences.....	100.0	94.6	5.4	S	S	S	S	S	S
Life and related scientists.....	100.0	61.9	2.0	19.9	1.6	3.9	8.8	1.7	0.1
Agricultural scientists.....	100.0	30.9	S	44.2	4.1	1.4	17.7	1.0	S
Biological scientists.....	100.0	47.1	S	28.7	2.1	6.4	12.6	2.8	0.2
Forestry and conservation scientists.....	100.0	31.6	S	16.1	5.7	13.3	25.3	6.2	S
Postsecondary teachers, life and related sciences.....	100.0	94.1	5.6	S	S	S	S	S	S
Physical and related scientists.....	100.0	44.2	2.8	35.9	1.4	2.9	10.8	1.8	0.2
Chemists, except biochemistry.....	100.0	9.9	S	75.7	1.7	2.6	7.8	2.0	S
Earth scientists.....	100.0	29.3	S	29.1	3.2	5.4	26.3	6.1	S
Physics and astronomers.....	100.0	29.0	S	35.6	1.2	7.2	24.3	2.0	0.6
Other physical scientists.....	100.0	15.2	S	41.9	9.6	S	28.2	S	S
Postsecondary teachers, physical and related sciences .....	100.0	91.8	7.7	S	S	S	S	S	S
Social scientists.....	100.0	75.4	2.4	6.8	2.4	3.6	5.6	1.9	1.8
Economists.....	100.0	16.8	S	30.6	5.7	10.1	22.2	3.7	10.9
Political scientists.....	100.0	30.9	S	14.5	8.1	18.9	20.7	S	S
Sociologists and anthropologists.....	100.0	41.5	S	14.2	8.1	11.2	13.4	10.8	S
S&T historians and other social scientists.....	100.0	35.3	S	14.3	13.0	14.9	13.0	8.2	S
Postsecondary teachers, social sciences .....	100.0	96.4	3.4	S	S	S	S	S	S
Psychologists.....	100.0	34.7	5.2	17.5	22.9	9.6	3.5	6.6	S
Psychologists.....	100.0	14.5	5.3	23.3	30.6	12.7	4.7	8.8	S
Postsecondary teachers, psychology.....	100.0	94.8	5.0	S	S	S	S	S	S
Engineers.....	100.0	30.0	0.3	56.4	2.2	2.7	6.8	1.3	0.2
Aerospace/aeronautical engineers.....	100.0	10.2	S	60.4	2.7	6.4	19.7	S	S
Chemical engineers.....	100.0	5.7	S	84.0	1.4	3.5	4.7	S	S
Civil and architectural engineers.....	100.0	12.2	S	54.4	8.9	3.3	8.9	11.7	S
Electrical and related engineers.....	100.0	6.7	S	79.2	3.2	2.9	7.7	S	S
Materials/metallurgical engineers.....	100.0	S	S	79.4	S	S	10.5	S	S
Mechanical engineers.....	100.0	9.5	S	77.9	1.6	4.1	6.2	S	S
Other engineers.....	100.0	13.4	S	67.5	2.5	3.1	10.5	2.5	0.3
Postsecondary teachers, engineering.....	100.0	98.9	1.1	S	S	S	S	S	S
Non-S&E occupations.....	100.0	30.5	4.3	41.8	6.5	7.2	5.6	3.8	0.3
Top/mid-level managers, administrators, etc.....	100.0	21.8	2.3	52.7	2.7	7.9	7.3	4.8	0.5
Health and related occupations.....	100.0	33.0	0.5	33.1	9.8	13.0	6.4	4.2	S
Teachers, except S&E postsecondary teachers.....	100.0	81.5	15.7	0.7	1.1	0.5	S	0.3	S
Social services and related occupations.....	100.0	15.3	14.0	8.9	6.6	40.1	S	13.7	S
Technicians/technologists.....	100.0	7.1	S	73.4	4.3	3.9	7.2	3.5	S
Sales and marketing occupations.....	100.0	1.6	S	75.5	21.6	S	S	S	S
Other non-S&E occupations.....	100.0	9.1	1.7	44.7	25.4	7.1	7.7	3.8	0.5

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&amp;T=science and technology. S&amp;E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 1999 Survey of Doctorate Recipients